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## United States Department of Agriculture.

WASHINGTON, *July 31, 1917.*

### MONTHLY LIST OF PUBLICATIONS.


[JULY, 1917.]

#### HOW TO SECURE PUBLICATIONS.

 Send No Remittances to the U. S. Department of Agriculture.


A copy of any of the publications listed herein, including those with price named, except the Journal of Agricultural Research, Experiment Station Record, Service and Regulatory Announcements, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply of the publications listed below is exhausted, those publications of which the price is indicated can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

 Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

Remittances should be made to the Superintendent of Public Documents by coupons, postal money order, express order, or New York draft. Money inclosed in letter is sent at sender's risk.

#### FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

 NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

**Pit Silos.** By T. Pryse Metcalfe and George A. Scott, Animal Husbandry Division. Pp. 14, figs. 6. Contribution from the Bureau of Animal Industry. June, 1917. (Farmers' Bulletin 825.)

Intended for distribution in sections where building materials are scarce and high priced, especially applying to the Great Plains region.

**Sweet Clover: Harvesting and Thrashing the Seed Crop.** By H. S. Coe, Assistant Agronomist, Office of Forage-Crop Investigations. Pp. 23, figs. 13. Contribution from the Bureau of Plant Industry. July, 1917. (Farmers' Bulletin 836.)

Discusses only the harvesting and thrashing of the sweet-clover seed crop. The growing of sweet clover and its utilization are discussed in Farmers' Bulletin 797, entitled "Sweet Clover: Growing the Crop," and Farmers' Bulletin 820, entitled "Sweet Clover: Utilization," respectively.

**Farm Sheep Raising for Beginners.** By F. R. Marshall and R. B. Millin, Animal Husbandry Division. Pp. 24, figs. 6. Contribution from the Bureau of Animal Industry. July, 1917. (Farmers' Bulletin 840.)

Suitable for general distribution.

**Potato Storage and Storage Houses.** By William Stuart, Horticulturist, Office of Horticultural and Pomological Investigations. Pp. 27, figs. 20. Contribution from the Bureau of Plant Industry. July, 1917. (Farmers' Bulletin 847.)

The investigations upon which this bulletin is based were made in the Irish Potato Investigations of the Office of Horticultural and Pomological Investigation in the Bureau of Plant Industry. The fruit and vegetable handling, transportation, and storage investigations of the Department of Agriculture are now prosecuted jointly and cooperatively by the Bureau of Plant Industry and the Office of Markets and Rural Organization. Of particular value throughout the northern half of the United States where potatoes are held in considerable quantities on the farm during the winter.

**Fresh Fruits and Vegetables as Conservers of Other Staple Foods.** By Caroline L. Hunt, Scientific Assistant, Office of Home Economics, States Relations Service. Pp. 11. Contribution from the States Relations Service. July, 1917. (Farmers' Bulletin 871.)

For general distribution.

## DEPARTMENT BULLETINS—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

**The Seasoning of Wood.** By Harold S. Betts, M. E., in charge, Office of Industrial Investigations. Pp. 28, pls. 8, figs. 18. Contribution from the Forest Service. (Professional Paper.) July 9, 1917. (Department Bulletin 552.) Price, 10 cents.

A description of various methods of seasoning wood. Of interest to manufacturers of wood products.

**Accounting Records for Country Creameries.** By John R. Humphrey, Investigator in Market Business Practice, and G. A. Nashtoll, Assistant in Market Business Practice. Pp. 37. Contribution from the Office of Markets and Rural Organization. July 14, 1917. (Department Bulletin 559.) Price, 5 cents.

Intended for all farmers' cooperative and other country creameries throughout the United States. It contains copies of forms and a description of their uses for a system of accounts which is being recommended by the Office of Markets and Rural Organization and by the Dairy Division of the United States Department of Agriculture as a uniform system of accounting for country creameries.

**Cost of Keeping Farm Horses and Cost of Horse Labor.** A Study of Records for 316 Horses on 27 Farms in Illinois, Ohio, and New York. By M. R. Cooper, Scientific Assistant. Pp. 22, figs. 5. Contribution from the Office of Farm Management. July 9, 1917. (Department Bulletin 560.) Price, 5 cents.

Should be of value to all who are interested in the study of farm-management problems.

## SERIALS.

**Journal of Agricultural Research.** (For sale only.) Vol. 10, No. 1. July 2, 1917. Contents: Life History of *Plutella maculipennis*, the Diamond-Back Moth. (in K-53.) By H. O. Marsh.—Daily Variation of Water and Dry Matter in the Leaves of Corn and the Sorghums. (in Kans.-6.) By Edwin C. Miller.—A Neglected Factor in the Use of Nicotine Sulphate as a Spray. (in Minn.-16.) By William Moore and Samuel A. Graham.—A New Disease of Wheat. (in G-115.) By Erwin F. Smith. Pp. 1-53, pls. 8, figs. 10. Price, 20 cents.

**Same,** Vol. 10, No. 2. July 9, 1917. Contents: A Study of the Rate of Passage of Food Residues Through the Steer and its Influence on Digestion Coefficients. (in Ga.-1.) By P. V. Ewing and F. H. Smith.—A Further Contribution to the Study of *Eriosoma pyricola*, the Woolly Pear Aphis. (in K-54.) By A. C. Baker and W. M. Davidson.—Micro-organisms and Heat Production in Silage Fermentation. (in Kans. 7.) By O. W. Hunter.—Isolation of Cyanuric Acid from Soil. (in G-116.) By Louis E. Wise and E. H. Waters.—Family Performance as a Basis for Selection in Sheep. (in N. H.-3.) By E. G. Ritzman and C. B. Davenport.—A Needle Blight of Douglas Fir. (in No-117.) By James R. Weir. Pp. 55-102, pls. 4, figs. 13. Price, 15 cents.

**Same, Vol. 10, No. 3.** July 16, 1917. Contents: A Substitute for Litmus for Use in Milk Cultures. (iy A-30.) By Wm. Mansfield Clark and Herbert A. Lubs.—Movement and Distribution of Moisture in the Soil. (ix Utah-7.) By F. S. Harris and H. W. Turpin. Pp. 105-155, figs. 31. Price, 15 cents.

**Same, Vol. 10, No. 4.** July 23, 1917. Contents: A Colletotrichum Leafspot of Turnips (ii Ga.-2.) By B. B. Higgins.—Black Rootrot of the Apple. (iv Va. (Blacksburg)-1.) By F. D. Fromme and H. E. Thomas.—Physiological Effect on Growth and Reproduction of Rations Balanced from Restricted Sources. (iw Wis.-7.) By E. B. Hart, E. V. McCollum, H. Steenbock and G. C. Humphrey.—Toxic Values and Killing Efficiency of the Arsenates. (jh Oreg.-1.) By A. L. Lovett and R. H. Robinson. Pp. 157-207, pls. 20, fig. 1. Price, 30 cents.

**Same, Vol. 10, No. 5.** July 30, 1917. Contents: Evaporation from the Surfaces of Water and River-Bed Materials. (ja D-11.) By R. B. Sleight.—Influence of Grading on the Value of Fine Aggregate Used in Portland Cement Concrete Road Construction. (jb D-12.) By F. H. Jackson, jr. Pp. 200-274, pls. 6, figs. 12. Price, 25 cents.

**NOTE.**—Beginning with Volume 5, The Journal of Agricultural Research has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3 per year, 52 numbers.

**The Monthly Crop Report.** Vol. 3, No. 7, July, 1917. Pp. 57-68. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

## SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals, especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

**Bureau of Animal Industry.** No. 121. May, 1917. Pp. 47-59. July 3, 1917. Price, 5 cents.

**Bureau of Chemistry.** No. 20. Pp. 55-66. July 2, 1917. Price, 5 cents.

**Federal Horticultural Board.** No. 40, May, 1917. Pp. 49-56. July 7, 1917. Price, 5 cents.

## PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

**Monthly Weather Review.** (For sale only.) Vol. 45, No. 4, April, 1917. [June 30, 1917.] Pp. 149-201, charts 9, figs. 25. Price, 25 cents per copy, \$2.50 per year.

Special Articles: Solar and sky radiation measurements during April, 1917. By H. H. Kimball.—Equation of horizontal rainbows. By K. Otobi.—Improved kite hygrometer and its records. By W. R. Gregg.—Some new instruments for oceanographical research. By Hans Pettersson.—Tornado of April 5, 1917, at Tampa, Fla. By W. J. Bennett.—Tornado of March 23, 1917, at New Albany, Ind. By F. J. Walz.—Fish killed by the cold wave of February 2-4, 1917, in Florida. By Ruy H. Finch.

**National Weather and Crop Bulletin,** Nos. 16, 17, 18, 19, 20, July, 1917, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

JOS. A. ARNOLD,  
Editor and Chief, Division of Publications.



**T**HE point has been reached where war is waged by whole nations. Every man, woman, and child is involved and nearly every adult and most boys and girls can be efficient factors. We are in this war for the purpose of defending our rights, of making sure that, as a Nation, we shall be able to live the sort of life and to have the sort of institutions we desire, of making democracy persist in the world, and of safeguarding the world against the recurrence of such a war as this. To accomplish this the Nation must aim at the perfection of organization, and therefore each individual must recognize the necessity of making sacrifices for the common good and more than ever of working under limitations—of doing team work. Our people have a genius for organization, and they will not fail in the task they have assumed. Our farmers, on whom a great responsibility rests, are the most efficient farmers in the world when they do their best. They will not be found wanting in this crisis.

June 12, 1917.

*D. F. Houston*

Secretary of Agriculture.